

Influenza Season, Update for Week 16*

(Week ending Saturday, 04/23/2016)

Key Points

- ✓ Flu activity is now past peak in Connecticut and in most of the country; however, it continues to be classified geographically in Connecticut as widespread**.
- ✓ The predominant influenza viruses identified this season are Type A, although an increasing number of Type B flu viruses are continuing to be reported.
- ✓ The predominant Type A isolates subtyped have been 2009 H1N1.
- ✓ It is still important to take steps to prevent influenza-related illness and hospitalization: http://www.ct.gov/dph/cwp/view.asp?a=3115&q=500340

The Department of Public Health (DPH) uses multiple surveillance systems to monitor circulating flu viruses throughout the year. All data are considered preliminary and updated with available information each week starting in October and ending in May.

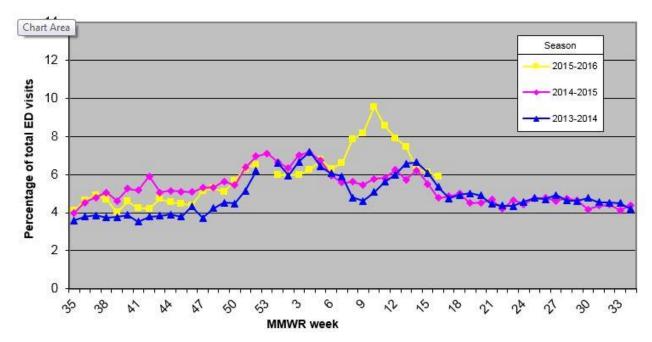
- Statewide emergency department visits attributed to the "fever/flu syndrome" had reached 9.6% and it is currently at 5.9% statewide; 5% is generally considered the minimum threshold when there are elevated influenza-associated ED visits (Figure 1).
- The percentage of outpatient visits with influenza-like illness (ILI) had reached 4.2% and is currently at 1.6%; 1% is generally considered the baseline when there are increased influenza-associated visits in the outpatient setting (Figure 2).
- The percentage of unscheduled hospital admissions due to pneumonia has been below 4% statewide during the past 4 weeks; 4% is generally considered the baseline when there may be increased pneumonia hospitalizations due to influenza (Figure 3).
- A total of 1,136 hospitalized patients with laboratory-confirmed influenza have been reported. Of these reports, 751 are Type A (subtype unspecified), 172 are Type A (2009 H1N1), 9 are Type A (H3N2), and 204 are influenza B virus. A total of 28 reports of influenza-associated deaths have been received to date, most associated with illness occurring during this season's peak activity weeks in March. Of these, 18 were patients greater than 65 years of age, seven were 50-64 years of age, and three were 25-49 years of age (Figures 4 & 5).
- A total of 4,741 positive influenza reports have been reported for the current season. Influenza was reported in all eight Connecticut counties: Fairfield (1,536), New Haven (1,309), Hartford (1,121), New London (217), Tolland (168), Litchfield (141), Windham (133), and Middlesex (116). Of the 4,741 positive influenza reports: 2,397 are Type A (subtype unspecified), 1,013 are Type A (2009 H1N1), 50 are Type A (H3N2), and 1,281 are influenza B virus (Figures 6 & 7).

^{*} Week numbers refer to the Morbidity and Mortality Weekly Report calendar used by the federal Centers for Disease Control and Prevention for national disease surveillance.

^{**} Definitions for the estimated levels of geographic spread of influenza activity available at: http://www.cdc.gov/flu/weekly/overview.htm

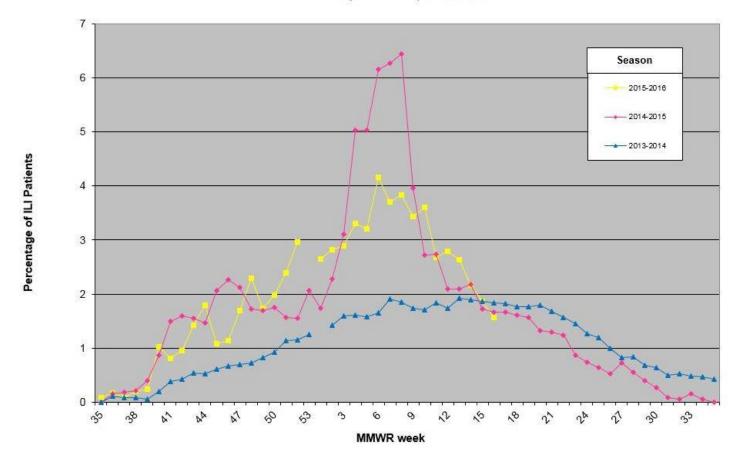
The Hospital Emergency Department Syndromic Surveillance (HEDSS) System receives daily electronic reports on ED visits from more than half of Connecticut's acute care hospitals. Data include a listing of total patient visits with information on their chief complaint, including fever/flu.

Figure 1. Connecticut Hospital Emergency Department Syndromic Surveillance (HEDSS) System: Percentage of total ED visits for "fever/flu" syndrome category, 2015-2016 influenza season compared to past seasons, MMWR Week 16 (week ending 04/23/16)



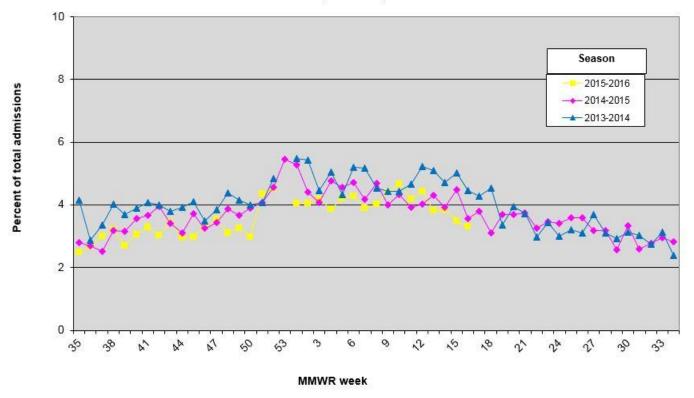
Sentinel Provider Surveillance System: Reporting of influenza-like illness (ILI) is conducted through a statewide network of volunteer outpatient providers known as ILINet. The proportion of patients exhibiting ILI is reported to the DPH on a weekly basis. ILI is defined as a cough or sore throat in the absence of a known cause, and the presence of a fever > 100° F.

Figure 2. Outpatient Influenza-Like Illness Surveillance Network (ILINet),
Percentage of Patients with Influenza-Like Illness (ILI);
2013-14, 2014-15, 2015-16



The **Hospital Admissions Syndromic Surveillance (HASS) System**, receives daily electronic reports from all 32 acute care hospitals in Connecticut. Information on unscheduled admissions, including those for pneumonia that may be associated with influenza infections, is submitted.

Figure 3: Connecticut Hospital Admissions Syndromic Surveillance (HASS) System, Percentage of total statewide admissions for pneumonia; 2013-14, 2014-15, 2015-16



Influenza-associated Hospitalizations: In Connecticut, influenza-associated hospitalizations and deaths are reportable. Data collected describe the more serious illnesses associated with influenza infections.

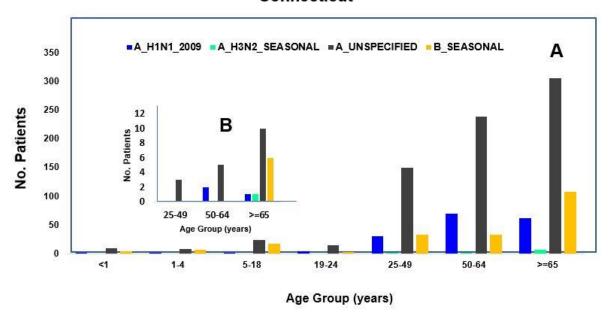
172
129868635 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16

Figure 4. Hospitalized Patients (n = 1136) with Positive Lab Tests by Subtype & Week

Figure 5. Hospitalized Patients (A, n=1136) and Flu-Associated Deaths (B, n=28) with Positive Laboratory Tests by Influenza Subtype and Age Group,

Connecticut

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Laboratory Surveillance: Positive influenza tests are laboratory reportable findings in Connecticut. The DPH tracks these results to determine what types, subtypes, and strains are circulating.

Type A (H1N1) 2009

Type A (H1N1)

Type A (H3N2)

Type A (H3N2)

Type A (H7N9)

Type A (Unsubtypeable)

Type A (Unsubtypeable)

Type B Seasonal

Positive (Unknown Type)

Figure 6. Positive Laboratory Tests (n = 4741) by Influenza Subtype and Week, Connecticut

Figure 7. Proportion of Cumulative Positive Laboratory Tests (n = 4741) by Influenza Subtype, Connecticut

35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16

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